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ACIDIC PRECIPITATION IN ONTARIO STUDY

ANNUAL STATISTICS OF CONCENTRATION AND DEPOSITION - DAILY PRECIPITATION AND AIR MONITORING NETWORK, 1982

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May 1984

Ontario
Ministry of the Environment

The Honourable
Andrew S. Brandt
Minister

Brock A. Smith
Deputy Minister

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PART I

INTRODUCTION

INTRODUCTION

This report was prepared by Walter Chan and David Chung. The statistical summaries presented in this report pertain to the 1982 analytical results obtained from the Acidic Precipitation in Ontario Study (APIOS) daily precipitation and air monitoring network. The relevant data are listed in previous reports, #ARB-56-84-ARSP and #ARB-75-84-ARSP. All available data are utilized in the calculations except results reported as being unreliable or approximate. If it is noted that the actual result is greater than the reported value, the reported value is also excluded. If a reported value is labelled as <W, it is replaced by a "zero". However, if a detection limit (< or <T) is reported, a value corresponding to one half the detection limit is utilized for statistical calculations as reported in the statistical summaries.

The reported precipitation gauge depth (standard rain gauge or nipher shielded snow gauge) is utilized in the calculation of deposition. If a rain gauge value is not available then the collected sample volume is converted to its equivalent precipitation depth and is used in the deposition calculation.

In the air concentration statistical summaries, "Nitric" represents "Nitric Acid" and "Totl NO_3" represents total nitrates calculated by the summation of particulate "Nitrate" and "Nitric Acid".

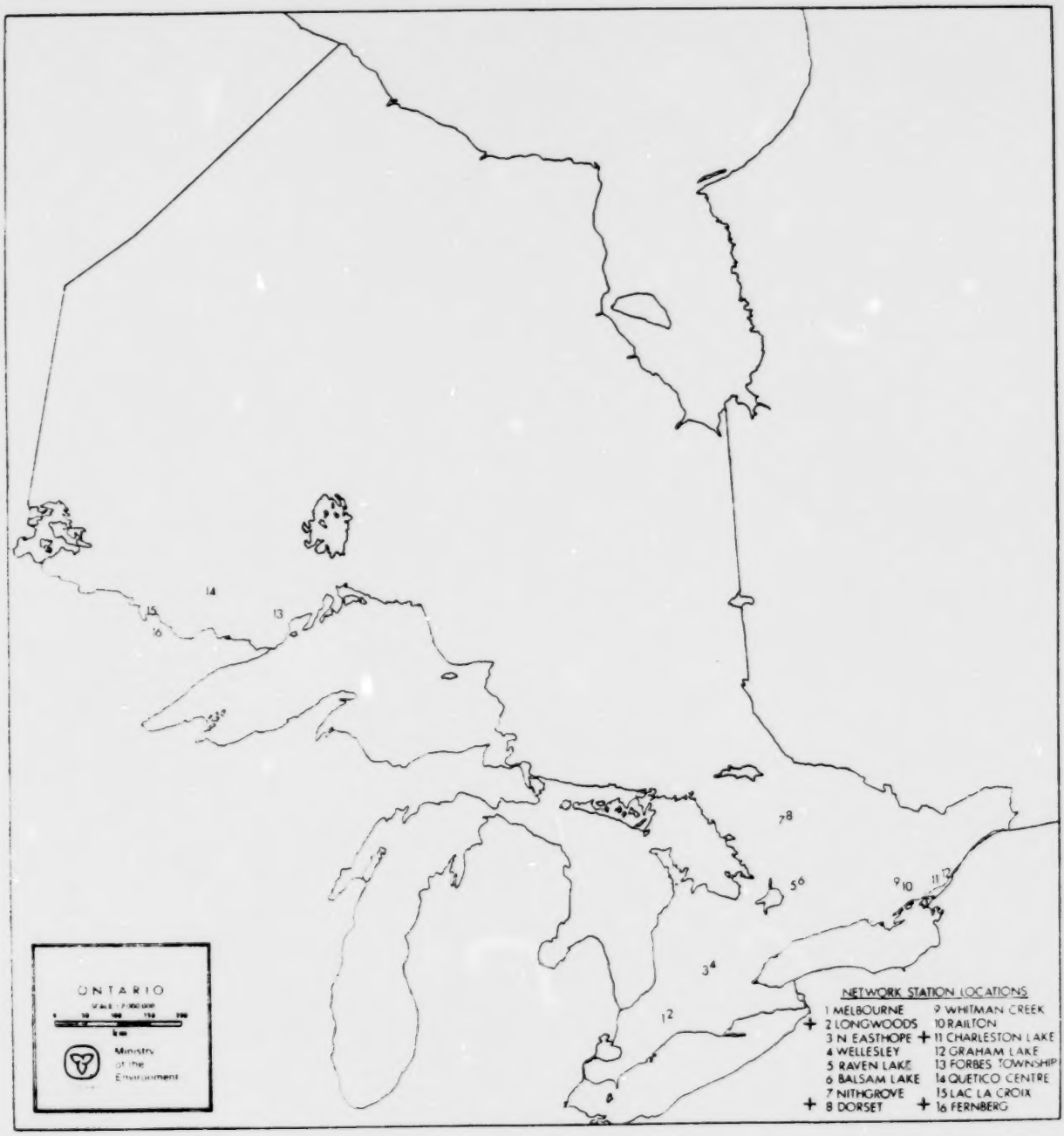
The statistical summaries presented in Parts III to VII include the number of samples, mean (arithmetic/geometric), standard deviation (arithmetic/geometric), maximum, minimum and quartiles and volume weighted means using precipitation gauge depths where appropriate.

PART II

STATION DESCRIPTION AND LOCATION MAP

STATION SITE LOCATION MAP

APIOS DAILY PRECIPITATION AND AIR MONITORING NETWORK *



* ALL SITES ARE PRECIPITATION MONITORING SITES. THOSE LABELLED WITH (+) ARE ALSO EQUIPPED WITH AIR MONITORING INSTRUMENTATION

APIOS DAILY PRECIPITATION AND AIR MONITORING NETWORK SITE LOCATIONS *

AREA	MOE REGION	STATION NAME	ELEVATION (m above MSL)	LATITUDE (North)	LONGITUDE (West)	UTM COORDINATES (Northing)	(Easting)
London	Southwestern	Longwoods Conservations Area*	239	42°53'02"	81°28'50"	4747600	460700
		Melbourne	213	42°47'15"	81°33'23"	4737100	454500
		North Easthope	375	43°24'21"	80°53'35"	4805650	508650
		Wellesley	344	43°28'13"	80°45'35"	4812700	519600
Dorset	Central	Dorset Laboratory*	320	45°13'23"	78°55'49"	5009600	662450
		Nithgrove	325	45°12'01"	79°04'14"	5006800	651600
		Balsam Lake Provincial Park	259	44°37'35"	78°51'22"	4943500	670170
		Raven Lake	274	44°36'40"	78°54'43"	4941550	665700
Kingston	Southeastern	Charleston Lake Provincial Park*	92	44°29'54"	76°02'30"	4927500	417150
		Graham Lake	130	44°35'22"	75°51'44"	4937450	431550
		Railton	156	44°22'34"	76°35'33"	4914700	373200
		Whitman Creek	137	44°29'07"	76°49'19"	4927200	355100
Thunder Bay	Northwestern	Fernberg*	506	47°56'51"	91°29'26"	5311000	612000
		Lac La Croix	368	48°21'14"	92°12'32"	5355900	558400
		Forbes Township	324	48°34'58"	89°38'56"	5384150	304800
		Quetico Centre	420	48°24'44"	91°12'08"	5399750	632100

* All sites monitor precipitation concentrations. Sites labelled (*) also monitor air concentrations.

PART III

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY STATION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY PRECIPITATION #06

PERIOD OF REPORT : JAN 3,82 TO JAN 1,83

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	140.0	87.0	74.00	115.00	110.0000	116.00	115.000
MAXIMUM :	31.1	157.0	4.99	5.71	0.4300	15.00	2.730
MINIMUM :	0.2	4.1	3.44	3.39	0.0214	0.05	0.030
RANGE :	30.9	152.9	1.55	2.32	0.4086	14.95	2.700
ARITH. MEAN :	6.1	35.3	4.23	4.29	0.0999	3.09	0.598
ARITH. STD. DEV :	6.2	29.8	0.34	0.41	0.0753	2.78	0.498
GEOM. MEAN :	3.5	26.5	4.22	4.27	0.0808	1.98	0.426
GEOM. STD. DEV. :	3.2	2.2	1.08	1.10	1.8978	2.83	2.461
1ST QUARTILE :	1.5	15.8	3.95	4.04	0.0516	0.88	0.265
2ND QUARTILE :	3.5	27.0	4.21	4.22	0.0773	2.38	0.420
3RD QUARTILE :	8.2	45.3	4.46	4.45	0.1247	4.15	0.735
VOL. WGT. MEAN :	******	30.7	******	******	0.0900	2.64	0.439

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY PRECIPITATION #06

PERIOD OF REPORT : JAN 3,82 TO JAN 1,83

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	96.000	111.000	95.000	104.000	101.000	98.000	115.0000
MAXIMUM :	0.860	0.900	0.210	0.180	0.380	1.350	0.4074
MINIMUM :	0.010	0.000	0.000	0.000	0.000	0.004	0.0019
RANGE :	0.850	0.900	0.210	0.180	0.380	1.346	0.4054
ARITH. MEAN :	0.230	0.184	0.032	0.028	0.065	0.296	0.0740
ARITH. STD. DEV :	0.219	0.155	0.038	0.027	0.074	0.283	0.0652
GEOM. MEAN :	0.142	0.144	0.025	0.025	0.038	0.179	0.0516
GEOM. STD. DEV. :	2.882	2.540	2.825	2.635	3.285	3.094	2.5574
1ST QUARTILE :	0.060	0.070	0.010	0.010	0.015	0.090	0.0347
2ND QUARTILE :	0.160	0.140	0.020	0.020	0.035	0.220	0.0582
3RD QUARTILE :	0.325	0.280	0.037	0.040	0.085	0.420	0.0902
VOL. WGT. MEAN :	0.177	0.131	0.024	0.021	0.042	0.250	0.0648

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY PRECIPITATION #11

PERIOD OF REPORT : JAN 2,82 TO DEC 29,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	126.0	77.0	43.00	112.00	105.0000	113.00	110.000
MAXIMUM :	60.6	129.0	4.99	5.66	0.4432	15.30	3.920
MINIMUM :	0.1	4.2	3.30	3.15	0.0214	0.02	0.000
RANGE :	60.5	124.8	1.69	2.51	0.4218	15.27	3.920
ARITH. MEAN :	8.0	38.5	4.25	4.15	0.1100	3.11	0.626
ARITH. STD. DEV :	10.0	28.0	0.32	0.41	0.0731	2.66	0.556
GEOM. MEAN :	4.3	29.2	4.24	4.14	0.0910	2.17	0.447
GEOM. STD. DEV. :	3.2	2.2	1.08	1.10	1.8753	2.59	2.570
1ST QUARTILE :	2.0	17.2	4.06	3.95	0.0612	1.25	0.305
2ND QUARTILE :	4.6	33.9	4.24	4.10	0.0995	2.27	0.470
3RD QUARTILE :	8.6	46.5	4.44	4.35	0.1253	3.93	0.765
VOL. WGT. MEAN :	******	32.2	******	******	0.0958	2.80	0.472

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY PRECIPITATION #11

PERIOD OF REPORT : JAN 2,82 TO DEC 29,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	94.000	108.000	94.000	95.000	94.000	93.000	112.0000
MAXIMUM :	1.030	0.930	0.195	0.125	0.445	2.000	0.7079
MINIMUM :	0.005	0.000	0.000	0.000	0.000	0.006	0.0022
RANGE :	1.025	0.930	0.195	0.125	0.445	1.994	0.7058
ARITH. MEAN :	0.189	0.199	0.031	0.028	0.066	0.346	0.1037
ARITH. STD. DEV :	0.211	0.180	0.034	0.025	0.078	0.314	0.1050
GEOM. MEAN :	0.106	0.146	0.025	0.028	0.036	0.229	0.0700
GEOM. STD. DEV. :	3.223	2.577	2.653	2.563	3.491	2.861	2.5930
1ST QUARTILE :	0.050	0.075	0.010	0.010	0.020	0.147	0.0447
2ND QUARTILE :	0.105	0.140	0.020	0.020	0.037	0.270	0.0804
3RD QUARTILE :	0.245	0.285	0.037	0.040	0.087	0.431	0.1122
VOL. WGT. MEAN :	0.149	0.131	0.023	0.023	0.046	0.306	0.0769

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY PRECIPITATION #08

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	193.0	102.0	92.00	160.00	145.0000	153.00	154.000
MAXIMUM :	34.8	98.0	5.15	5.37	0.5840	24.75	2.670
MINIMUM :	0.0	2.7	3.40	3.35	0.0196	0.02	0.000
RANGE :	34.8	95.3	1.75	2.02	0.5644	24.72	2.670
ARITH. MEAN :	6.0	29.8	4.26	4.29	0.0997	2.81	0.583
ARITH. STD. DEV :	6.9	20.0	0.32	0.38	0.0861	3.11	0.496
GEOM. MEAN :	2.6	23.5	4.24	4.27	0.0799	1.69	0.430
GEOM. STD. DEV. :	4.5	2.1	1.08	1.09	1.8667	3.04	2.398
1ST QUARTILE :	1.0	14.5	4.05	4.05	0.0492	0.82	0.220
2ND QUARTILE :	3.2	24.8	4.22	4.25	0.0767	1.93	0.420
3RD QUARTILE :	8.8	39.2	4.45	4.52	0.1116	3.63	0.775
VOL. WGT. MEAN :	******	26.0	******	******	0.0848	2.32	0.410

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY PRECIPITATION #08

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	117.000	146.000	117.000	120.000	119.000	114.000	160.0000
MAXIMUM :	0.990	1.060	0.235	0.265	0.250	1.200	0.4467
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.004	0.0043
RANGE :	0.990	1.060	0.235	0.265	0.250	1.196	0.4424
ARITH. MEAN :	0.161	0.172	0.026	0.043	0.058	0.289	0.0742
ARITH. STD. DEV :	0.194	0.158	0.035	0.049	0.057	0.274	0.0728
GEOM. MEAN :	0.107	0.125	0.029	0.031	0.041	0.156	0.0518
GEOM. STD. DEV. :	2.961	2.789	2.938	3.116	3.205	3.734	2.3967
1ST QUARTILE :	0.040	0.060	0.005	0.010	0.015	0.076	0.0302
2ND QUARTILE :	0.100	0.130	0.015	0.027	0.040	0.197	0.0562
3RD QUARTILE :	0.190	0.245	0.025	0.052	0.085	0.450	0.0891
VOL. WGT. MEAN :	0.118	0.116	0.019	0.033	0.045	0.253	0.0588

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY PRECIPITATION #16

PERIOD OF REPORT : JAN 2,82 TO DEC 28,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	90.0	62.0	0.00	85.00	83.0000	84.00	84.000
MAXIMUM :	35.8	44.1	******	6.54	0.2408	6.80	1.240
MINIMUM :	0.1	1.8	******	3.68	0.0178	0.00	0.000
RANGE :	35.7	42.3	******	2.86	0.2230	6.80	1.240
ARITH. MEAN :	9.2	10.5	******	4.98	0.0458	1.23	0.212
ARITH. STD. DEV :	7.7	7.1	******	0.49	0.0338	1.36	0.212
GEOM. MEAN :	5.8	8.9	******	4.95	0.0398	0.81	0.169
GEOM. STD. DEV. :	3.2	1.8	******	1.10	1.6038	2.56	2.249
1ST QUARTILE :	2.9	6.0	******	4.69	0.0289	0.42	0.080
2ND QUARTILE :	7.1	9.1	******	4.92	0.0377	0.77	0.160
3RD QUARTILE :	12.8	12.1	******	5.16	0.0505	1.42	0.260
VOL. WGT. MEAN :	******	9.5	******	******	0.0423	0.97	0.169

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY PRECIPITATION #16

PERIOD OF REPORT : JAN 2,82 TO DEC 28,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	74.000	83.000	75.000	76.000	73.000	77.000	85.0000
MAXIMUM :	0.730	0.290	0.150	0.715	0.200	1.290	0.2089
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.001	0.0003
RANGE :	0.730	0.290	0.150	0.715	0.200	1.289	0.2086
ARITH. MEAN :	0.157	0.073	0.025	0.048	0.037	0.268	0.0195
ARITH. STD. DEV :	0.176	0.061	0.030	0.092	0.040	0.283	0.0315
GEOM. MEAN :	0.087	0.065	0.047	0.026	0.028	0.128	0.0106
GEOM. STD. DEV. :	3.335	2.293	3.198	3.199	3.083	4.830	3.0858
1ST QUARTILE :	0.030	0.040	0.004	0.010	0.010	0.064	0.0066
2ND QUARTILE :	0.080	0.050	0.015	0.027	0.022	0.180	0.0117
3RD QUARTILE :	0.250	0.090	0.040	0.055	0.047	0.337	0.0200
VOL. WGT. MEAN :	0.122	0.054	0.018	0.033	0.030	0.221	0.0160

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY PRECIPITATION #13

PERIOD OF REPORT : JAN 2,82 TO DEC 19,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	131.0	74.0	0.00	104.00	99.0000	95.00	97.000
MAXIMUM :	83.0	40.0	******	6.23	0.3760	6.80	1.120
MINIMUM :	0.2	1.8	******	3.58	0.0170	0.00	0.000
RANGE :	82.8	38.2	******	2.65	0.3590	6.80	1.120
ARITH. MEAN :	6.4	12.3	******	4.83	0.0555	1.33	0.254
ARITH. STD. DEV :	10.1	8.0	******	0.53	0.0474	1.29	0.240
GEOM. MEAN :	2.6	10.0	******	4.80	0.0466	0.87	0.192
GEOM. STD. DEV. :	4.4	2.0	******	1.12	1.7055	2.72	2.463
1ST QUARTILE :	0.7	6.0	******	4.49	0.0327	0.40	0.075
2ND QUARTILE :	2.9	10.0	******	4.76	0.0443	0.85	0.180
3RD QUARTILE :	8.6	15.8	******	5.09	0.0611	1.82	0.325
VOL. MGT. MEAN :	******	11.6	******	******	0.0464	1.29	0.214

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY PRECIPITATION #13

PERIOD OF REPORT : JAN 2,82 TO DEC 19,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	81.000	97.000	83.000	87.000	82.000	85.000	104.0000
MAXIMUM :	0.630	0.480	0.225	0.330	0.235	2.050	0.2630
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0006
RANGE :	0.630	0.480	0.225	0.330	0.235	2.050	0.2624
ARITH. MEAN :	0.152	0.083	0.024	0.040	0.042	0.300	0.0285
ARITH. STD. DEV :	0.158	0.085	0.038	0.060	0.050	0.349	0.0414
GEOM. MEAN :	0.101	0.080	0.040	0.025	0.027	0.154	0.0147
GEOM. STD. DEV. :	3.005	2.368	3.723	3.481	3.270	4.633	3.4197
1ST QUARTILE :	0.030	0.030	0.002	0.005	0.010	0.062	0.0081
2ND QUARTILE :	0.100	0.060	0.010	0.020	0.025	0.178	0.0174
3RD QUARTILE :	0.195	0.105	0.035	0.050	0.052	0.430	0.0324
VOL. WGT. MEAN :	0.137	0.055	0.025	0.027	0.032	0.304	0.0194

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY PRECIPITATION #12

PERIOD OF REPORT : JAN 3,82 TO DEC 29,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	117.0	72.0	41.00	85.00	89.0000	96.00	96.000
MAXIMUM :	52.0	109.0	5.03	5.99	0.3580	17.75	2.550
MINIMUM :	0.2	4.9	3.37	3.44	0.0000	0.20	0.030
RANGE :	51.8	104.1	1.66	2.55	0.3580	17.55	2.520
ARITH. MEAN :	7.9	32.3	4.30	4.30	0.0891	3.52	0.672
ARITH. STD. DEV :	7.8	21.7	0.38	0.45	0.0553	3.00	0.485
GEOM. MEAN :	4.9	25.7	4.28	4.28	0.0792	2.57	0.492
GEOM. STD. DEV. :	2.9	2.0	1.09	1.11	1.7562	2.29	2.449
1ST QUARTILE :	2.3	15.9	4.10	4.04	0.0492	1.40	0.305
2ND QUARTILE :	5.3	29.0	4.29	4.22	0.0756	2.63	0.535
3RD QUARTILE :	10.2	38.7	4.42	4.54	0.1095	4.50	0.965
VOL. WGT. MEAN :	******	27.2	******	******	0.0842	2.87	0.491

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY PRECIPITATION #12

PERIOD OF REPORT : JAN 3,82 TO DEC 29,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	80.000	90.000	77.000	82.000	79.000	80.000	85.0000
MAXIMUM :	1.790	0.940	0.285	0.600	0.705	1.610	0.3631
MINIMUM :	0.020	0.005	0.000	0.000	0.000	0.036	0.0010
RANGE :	1.770	0.935	0.285	0.600	0.705	1.574	0.3621
ARITH. MEAN :	0.322	0.295	0.054	0.090	0.166	0.470	0.0746
ARITH. STD. DEV :	0.336	0.210	0.055	0.105	0.151	0.374	0.0668
GEOM. MEAN :	0.200	0.218	0.042	0.058	0.115	0.326	0.0497
GEOM. STD. DEV. :	2.829	2.410	2.642	2.694	2.620	2.598	2.8233
1ST QUARTILE :	0.105	0.130	0.020	0.025	0.052	0.165	0.0282
2ND QUARTILE :	0.230	0.250	0.035	0.055	0.130	0.400	0.0596
3RD QUARTILE :	0.410	0.390	0.072	0.100	0.217	0.605	0.0891
VOL. WGT. MEAN :	0.249	0.217	0.042	0.072	0.115	0.369	0.0672

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY PRECIPITATION #15

PERIOD OF REPORT : FEB 25,82 TO DEC 23,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	39.0	29.0	0.00	31.00	33.0000	34.00	34.000
MAXIMUM :	40.4	32.9	******	6.14	0.2086	4.95	1.130
MINIMUM :	0.2	2.0	******	3.81	0.0182	0.10	0.000
RANGE :	40.2	30.9	******	2.33	0.1904	4.85	1.130
ARITH. MEAN :	9.6	11.4	******	5.03	0.0470	1.39	0.257
ARITH. STD. DEV :	9.6	8.1	******	0.55	0.0353	1.20	0.239
GEOM. MEAN :	5.1	9.1	******	5.00	0.0400	0.94	0.215
GEOM. STD. DEV. :	3.8	2.0	******	1.12	1.6924	2.67	2.450
1ST QUARTILE :	2.2	5.8	******	4.65	0.0253	0.45	0.115
2ND QUARTILE :	6.5	9.2	******	4.93	0.0362	0.85	0.225
3RD QUARTILE :	14.0	13.6	******	5.35	0.0517	1.82	0.260
VOL. WGT. MEAN :	******	11.0	******	******	0.0409	1.28	0.227

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY PRECIPITATION #15

PERIOD OF REPORT : FEB 25,82 TO DEC 23,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	28.000	33.000	28.000	29.000	29.000	30.000	31.0000
MAXIMUM :	0.520	0.780	0.100	0.200	0.160	1.640	0.1549
MINIMUM :	0.000	0.000	0.000	0.002	0.002	0.001	0.0007
RANGE :	0.520	0.780	0.100	0.197	0.158	1.639	0.1542
ARITH. MEAN :	0.180	0.106	0.031	0.056	0.042	0.379	0.0192
ARITH. STD. DEV :	0.146	0.136	0.025	0.054	0.040	0.365	0.0289
GEOM. MEAN :	0.136	0.090	0.047	0.032	0.027	0.189	0.0093
GEOM. STD. DEV. :	2.801	2.308	2.591	3.450	2.953	5.202	3.5699
1ST QUARTILE :	0.090	0.050	0.015	0.020	0.012	0.147	0.0041
2ND QUARTILE :	0.135	0.065	0.027	0.035	0.032	0.264	0.0095
3RD QUARTILE :	0.240	0.125	0.050	0.065	0.055	0.500	0.0209
VOL. WGT. MEAN :	0.157	0.064	0.026	0.042	0.034	0.324	0.0148

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY PRECIPITATION #02

PERIOD OF REPORT : JAN 2,82 TO DEC 30,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	139.0	83.0	71.00	99.00	97.0000	109.00	107.000
MAXIMUM :	40.0	170.0	6.43	6.61	0.5424	17.40	3.700
MINIMUM :	0.1	2.6	3.32	3.36	0.0232	0.20	0.005
RANGE :	39.9	167.3	3.11	3.25	0.5192	17.20	3.695
ARITH. MEAN :	7.3	33.7	4.28	4.28	0.1092	3.79	0.718
ARITH. STD. DEV :	8.1	23.9	0.47	0.54	0.0895	3.08	0.643
GEOM. MEAN :	3.6	27.5	4.26	4.25	0.0881	2.81	0.500
GEOM. STD. DEV. :	3.9	1.9	1.11	1.12	1.8693	2.28	2.675
1ST QUARTILE :	1.5	18.6	4.01	3.97	0.0580	1.70	0.300
2ND QUARTILE :	4.3	29.1	4.20	4.23	0.0901	2.90	0.455
3RD QUARTILE :	10.9	39 6	4.43	4.44	0.1201	4.75	0.970
VOL. WGT. MEAN :	******	27.5	******	******	0.0845	2.87	0.466

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY PRECIPITATION #02

PERIOD OF REPORT : JAN 2,82 TO DEC 30,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	86.000	104.000	92.000	98.000	94.000	96.000	99.0000
MAXIMUM :	1.770	1.020	0.425	0.460	0.610	2.800	0.4365
MINIMUM :	0.020	0.000	0.002	0.000	0.000	0.038	0.0002
RANGE :	1.750	1.020	0.423	0.460	0.610	2.762	0.4363
ARITH. MEAN :	0.421	0.289	0.089	0.071	0.106	0.435	0.0843
ARITH. STD. DEV :	0.359	0.232	0.086	0.076	0.108	0.412	0.0789
GEOM. MEAN :	0.275	0.212	0.052	0.048	0.073	0.308	0.0527
GEOM. STD. DEV. :	2.782	2.472	3.163	2.663	2.773	2.306	3.4395
1ST QUARTILE :	0.120	0.130	0.025	0.027	0.035	0.163	0.0351
2ND QUARTILE :	0.345	0.225	0.062	0.050	0.070	0.305	0.0562
3RD QUARTILE :	0.580	0.385	0.127	0.082	0.140	0.570	0.1072
VOL. WGT. MEAN :	0.309	0.182	0.062	0.050	0.070	0.324	0.0592

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY PRECIPITATION #01

PERIOD OF REPORT : JAN 13,82 TO DEC 28,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	98.0	71.0	58.00	91.00	88.0000	85.00	86.000
MAXIMUM :	92.8	104.0	5.93	6.74	0.5600	25.50	2.180
MINIMUM :	0.4	3.0	3.74	3.28	0.0170	0.25	0.020
RANGE :	92.4	101.0	2.19	3.46	0.5430	25.25	2.160
ARITH. MEAN :	9.9	36.8	4.25	4.22	0.1113	4.12	0.670
ARITH. STD. DEV :	11.2	20.7	0.34	0.48	0.0807	3.35	0.483
GEOM. MEAN :	6.2	31.6	4.24	4.20	0.0932	3.26	0.513
GEOM. STD. DEV. :	2.8	1.8	1.08	1.11	1.7906	2.02	2.197
1ST QUARTILE :	3.1	20.5	4.04	3.96	0.0638	2.13	0.300
2ND QUARTILE :	6.3	30.8	4.21	4.16	0.0908	3.13	0.500
3RD QUARTILE :	14.3	46.6	4.35	4.39	0.1273	4.97	0.925
VOL. WGT. MEAN :	******	31.7	******	******	0.0912	3.22	0.463

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY PRECIPITATION #01

PERIOD OF REPORT : JAN 13,82 TO DEC 28,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	72.000	86.000	75.000	76.000	72.000	75.000	91.0000
MAXIMUM :	1.500	1.170	0.340	0.470	0.435	2.950	0.5248
MINIMUM :	0.020	0.000	0.000	0.000	0.000	0.088	0.0002
RANGE :	1.480	1.170	0.340	0.470	0.435	2.862	0.5246
ARITH. MEAN :	0.364	0.283	0.070	0.070	0.105	0.511	0.0905
ARITH. STD. DEV :	0.346	0.244	0.076	0.079	0.113	0.479	0.0852
GEOM. MEAN :	0.225	0.203	0.047	0.045	0.065	0.372	0.0603
GEOM. STD. DEV. :	2.922	2.474	2.922	2.807	3.297	2.169	3.0314
1ST QUARTILE :	0.100	0.100	0.020	0.027	0.025	0.199	0.0389
2ND QUARTILE :	0.295	0.225	0.042	0.045	0.060	0.340	0.0668
3RD QUARTILE :	0.450	0.375	0.100	0.075	0.150	0.620	0.1060
VOL. WGT. MEAN :	0.249	0.189	0.044	0.050	0.071	0.349	0.0708

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY PRECIPITATION #07

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	135.0	87.0	73.00	108.00	103.0000	115.00	115.000
MAXIMUM :	41.0	126.0	5.26	5.35	0.3480	16.00	3.010
MINIMUM :	0.3	2.3	3.54	3.47	0.0252	0.02	0.000
RANGE :	40.7	123.7	1.72	1.88	0.3228	15.98	3.010
ARITH. MEAN :	8.4	28.5	4.30	4.32	0.0898	2.70	0.547
ARITH. STD. DEV :	7.8	20.1	0.33	0.39	0.0580	2.49	0.473
GEOM. MEAN :	5.2	22.2	4.29	4.31	0.0757	1.74	0.382
GEOM. STD. DEV. :	2.9	2.1	1.08	1.09	1.7925	2.89	2.664
1ST QUARTILE :	2.4	13.0	4.06	4.09	0.0476	0.88	0.220
2ND QUARTILE :	5.9	25.9	4.22	4.25	0.0802	2.22	0.400
3RD QUARTILE :	12.3	38.4	4.52	4.53	0.1129	3.63	0.710
VOL. MGT. MEAN :	******	25.3	******	******	0.0802	2.29	0.387

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY PRECIPITATION #07

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	94.000	109.000	91.000	83.000	88.000	93.000	108.0000
MAXIMUM :	1.120	0.820	0.195	0.750	0.375	1.260	0.3388
MINIMUM :	0.000	0.020	0.000	0.002	0.000	0.001	0.0045
RANGE :	1.120	0.800	0.195	0.748	0.375	1.259	0.3344
ARITH. MEAN :	0.213	0.214	0.030	0.087	0.078	0.320	0.0668
ARITH. STD. DEV :	0.211	0.171	0.036	0.109	0.077	0.275	0.0585
GEOM. MEAN :	0.144	0.153	0.039	0.053	0.053	0.191	0.0474
GEOM. STD. DEV. :	2.545	2.388	2.844	2.792	3.034	3.488	2.4459
1ST QUARTILE :	0.070	0.080	0.008	0.030	0.025	0.099	0.0295
2ND QUARTILE :	0.125	0.160	0.020	0.050	0.050	0.223	0.0562
3RD QUARTILE :	0.290	0.285	0.040	0.090	0.110	0.460	0.0813
VOL. WGT. MEAN :	0.142	0.142	0.020	0.058	0.054	0.274	0.0541

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY PRECIPITATION #03

PERIOD OF REPORT : JAN 2,82 TO DEC 30,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	158.0	94.0	61.00	103.00	106.0000	134.00	133.000
MAXIMUM :	48.5	122.0	5.72	6.35	0.6696	13.65	3.090
MINIMUM :	0.0	4.0	3.00	3.52	0.0210	0.20	0.010
RANGE :	48.5	118.0	2.72	2.83	0.6486	13.45	3.080
ARITH. MEAN :	6.9	32.0	4.31	4.35	0.0967	3.39	0.675
ARITH. STD. DEV :	7.4	20.2	0.44	0.53	0.0831	2.69	0.542
GEOM. MEAN :	3.6	26.4	4.29	4.32	0.0765	2.46	0.489
GEOM. STD. DEV. :	3.8	1.9	1.11	1.12	1.9435	2.34	2.409
1ST QUARTILE :	1.4	17.7	4.08	4.03	0.0527	1.35	0.300
2ND QUARTILE :	4.2	28.1	4.23	4.25	0.0757	2.50	0.505
3RD QUARTILE :	9.4	39.0	4.48	4.47	0.1090	4.67	0.850
VOL. WGT. MEAN :	******	27.7	******	******	0.0819	2.91	0.474

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY PRECIPITATION #03

PERIOD OF REPORT : JAN 2,82 TO DEC 30,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	93.000	127.000	96.000	107.000	108.000	107.000	103.0000
MAXIMUM :	1.890	1.200	0.585	1.350	0.570	2.020	0.3020
MINIMUM :	0.000	0.000	0.000	0.000	0.002	0.012	0.0004
RANGE :	1.890	1.200	0.585	1.350	0.567	2.008	0.3015
ARITH. MEAN :	0.325	0.285	0.073	0.099	0.106	0.431	0.0696
ARITH. STD. DEV :	0.297	0.236	0.083	0.176	0.113	0.378	0.0572
GEOM. MEAN :	0.212	0.228	0.044	0.053	0.063	0.299	0.0448
GEOM. STD. DEV. :	2.873	2.133	3.331	3.077	3.048	2.494	3.3931
1ST QUARTILE :	0.085	0.120	0.017	0.030	0.030	0.164	0.0328
2ND QUARTILE :	0.260	0.200	0.045	0.047	0.067	0.292	0.0556
3RD QUARTILE :	0.470	0.385	0.095	0.098	0.125	0.575	0.0902
VOL. WGT. MEAN :	0.236	0.191	0.048	0.075	0.073	0.355	0.0582

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY PRECIPITATION #10

PERIOD OF REPORT : JAN 3,82 TO DEC 16,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	90.0	70.0	41.00	85.00	76.0000	84.00	84.000
MAXIMUM :	48.0	155.0	5.15	5.45	0.3116	10.50	3.800
MINIMUM :	0.5	3.2	3.94	3.46	0.0270	0.20	0.030
RANGE :	47.5	151.8	1.21	1.99	0.2846	10.30	3.770
ARITH. MEAN :	10.5	38.1	4.36	4.21	0.1063	3.25	0.688
ARITH. STD. DEV :	10.0	28.4	0.28	0.41	0.0632	2.27	0.607
GEOM. MEAN :	6.5	29.2	4.35	4.20	0.0896	2.50	0.484
GEOM. STD. DEV. :	2.9	2.2	1.07	1.10	1.8269	2.19	2.473
1ST QUARTILE :	3.2	15.8	4.14	3.94	0.0576	1.32	0.305
2ND QUARTILE :	6.8	33.9	4.29	4.10	0.0928	2.88	0.500
3RD QUARTILE :	15.3	47.3	4.53	4.51	0.1354	4.27	0.930
VOL. WGT. MEAN :	******	30.8	******	******	0.0893	2.75	0.485

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY PRECIPITATION #10

PERIOD OF REPORT : JAN 3,82 TO DEC 16,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	72.000	83.000	72.000	75.000	73.000	78.000	85.0000
MAXIMUM :	1.230	0.860	0.130	0.800	0.610	1.740	0.3467
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0035
RANGE :	1.230	0.860	0.130	0.800	0.610	1.740	0.3432
ARITH. MEAN :	0.272	0.203	0.037	0.055	0.087	0.384	0.0863
ARITH. STD. DEV :	0.267	0.187	0.036	0.103	0.118	0.346	0.0665
GEOM. MEAN :	0.168	0.145	0.038	0.039	0.046	0.264	0.0610
GEOM. STD. DEV. :	3.017	2.422	2.733	2.652	3.758	2.961	2.5477
1ST QUARTILE :	0.070	0.075	0.010	0.015	0.020	0.146	0.0309
2ND QUARTILE :	0.170	0.130	0.025	0.032	0.040	0.299	0.0767
3RD QUARTILE :	0.420	0.255	0.055	0.050	0.103	0.470	0.1109
VOL. WGT. MEAN :	0.200	0.127	0.027	0.040	0.055	0.316	0.0672

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY PRECIPITATION #05

PERIOD OF REPORT : JAN 3,82 TO JAN 1,83

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	154.0	93.0	77.00	120.00	120.0000	125.00	123.000
MAXIMUM :	35.5	167.0	5.12	5.54	0.4304	17.20	3.460
MINIMUM :	0.2	4.2	3.52	3.48	0.0194	0.02	0.020
RANGE :	35.3	162.8	1.60	2.06	0.4110	17.17	3.440
ARITH. MEAN :	6.0	34.7	4.24	4.30	0.0968	2.98	0.628
ARITH. STD. DEV :	6.1	28.6	0.30	0.38	0.0731	2.78	0.563
GEOM. MEAN :	3.5	26.7	4.23	4.29	0.0788	1.95	0.434
GEOM. STD. DEV. :	3.2	2.1	1.07	1.09	1.8682	2.76	2.562
1ST QUARTILE :	1.9	15.8	4.05	4.09	0.0569	0.92	0.260
2ND QUARTILE :	3.8	29.6	4.21	4.26	0.0771	2.25	0.460
3RD QUARTILE :	8.1	41.4	4.46	4.50	0.1136	4.00	0.770
VOL. WGT. MEAN :	******	30.0	******	******	0.0908	2.60	0.476

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY PRECIPITATION #05

PERIOD OF REPORT : JAN 3,82 TO JAN 1,83

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	94.000	120.000	100.000	102.000	102.000	102.000	120.0000
MAXIMUM :	1.070	1.120	0.190	0.550	0.540	1.800	0.3311
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.008	0.0029
RANGE :	1.070	1.120	0.190	0.550	0.540	1.792	0.3282
ARITH. MEAN :	0.279	0.195	0.031	0.038	0.081	0.321	0.0697
ARITH. STD. DEV :	0.250	0.181	0.038	0.060	0.100	0.332	0.0629
GEOM. MEAN :	0.180	0.148	0.034	0.029	0.057	0.181	0.0497
GEOM. STD. DEV. :	2.944	2.483	2.927	2.731	3.166	3.306	2.3962
1ST QUARTILE :	0.090	0.080	0.005	0.015	0.020	0.078	0.0316
2ND QUARTILE :	0.195	0.135	0.020	0.025	0.040	0.223	0.0550
3RD QUARTILE :	0.420	0.250	0.040	0.045	0.108	0.455	0.0813
VOL. WGT. MEAN :	0.212	0.144	0.024	0.028	0.055	0.270	0.0638

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY PRECIPITATION #14

PERIOD OF REPORT : JAN 2,82 TO DEC 24,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	104.0	70.0	0.00	90.00	90.0000	94.00	95.000
MAXIMUM :	46.0	56.0	******	6.14	0.2260	6.90	1.340
MINIMUM :	0.5	2.0	******	4.03	0.0188	0.02	0.000
RANGE :	45.5	54.0	******	2.11	0.2072	6.87	1.340
ARITH. MEAN :	7.3	11.3	******	4.93	0.0495	1.28	0.260
ARITH. STD. DEV :	7.2	8.7	******	0.45	0.0272	1.26	0.243
GEOM. MEAN :	4.8	9.2	******	4.91	0.0449	0.84	0.200
GEOM. STD. DEV. :	2.6	1.9	******	1.09	1.5165	2.74	2.343
1ST QUARTILE :	2.5	6.3	******	4.60	0.0347	0.50	0.100
2ND QUARTILE :	5.4	9.9	******	4.88	0.0440	0.90	0.170
3RD QUARTILE :	8.7	12.8	******	5.14	0.0553	1.47	0.375
VOL. WGT. MEAN :	******	9.6	******	******	0.0435	1.11	0.202

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY PRECIPITATION #14

PERIOD OF REPORT : JAN 2,82 TO DEC 24,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	78.000	90.000	81.000	85.000	80.000	82.000	90.0000
MAXIMUM :	0.570	0.270	0.300	0.425	0.260	3.550	0.0933
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.001	0.0007
RANGE :	0.570	0.270	0.300	0.425	0.260	3.549	0.0926
ARITH. MEAN :	0.134	0.079	0.025	0.057	0.046	0.320	0.0181
ARITH. STD. DEV :	0.120	0.063	0.043	0.083	0.048	0.442	0.0174
GEOM. MEAN :	0.094	0.086	0.031	0.034	0.030	0.165	0.0117
GEOM. STD. DEV. :	2.679	2.098	3.314	3.074	3.200	3.989	2.8155
1ST QUARTILE :	0.050	0.040	0.004	0.015	0.012	0.092	0.0071
2ND QUARTILE :	0.095	0.060	0.010	0.027	0.035	0.215	0.0133
3RD QUARTILE :	0.180	0.100	0.030	0.060	0.060	0.357	0.0251
VOL. WGT. MEAN :	0.115	0.058	0.019	0.041	0.033	0.248	0.0150

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY PRECIPITATION #04

PERIOD OF REPORT : JAN 2,82 TO DEC 31,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	137.0	88.0	54.00	106.00	103.0000	118.00	120.000
MAXIMUM :	49.4	142.0	5.92	6.61	0.5604	12.75	3.630
MINIMUM :	0.5	2.5	3.77	3.32	0.0212	0.20	0.010
RANGE :	48.9	139.5	2.15	3.29	0.5392	12.55	3.620
ARITH. MEAN :	8.4	32.7	4.34	4.34	0.0924	3.41	0.692
ARITH. STD. DEV :	8.7	19.8	0.40	0.53	0.0692	2.51	0.589
GEOM. MEAN :	5.0	27.5	4.32	4.31	0.0771	2.61	0.504
GEOM. STD. DEV. :	2.9	1.9	1.09	1.12	1.7895	2.17	2.345
1ST QUARTILE :	1.9	17.6	4.06	4.09	0.0536	1.65	0.320
2ND QUARTILE :	5.3	31.3	4.30	4.25	0.0723	2.75	0.510
3RD QUARTILE :	11.9	41.8	4.49	4.47	0.1121	4.27	0.850
VOL. WGT. MEAN :	******	29.4	******	******	0.0846	2.94	0.464

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY PRECIPITATION #04

PERIOD OF REPORT : JAN 2,82 TO DEC 31,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	90.000	114.000	91.000	101.000	94.000	103.000	106.0000
MAXIMUM :	2.060	1.150	0.330	0.320	0.650	1.940	0.4786
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.046	0.0002
RANGE :	2.060	1.150	0.330	0.320	0.650	1.894	0.4784
ARITH. MEAN :	0.300	0.258	0.061	0.038	0.099	0.447	0.0715
ARITH. STD. DEV :	0.336	0.253	0.073	0.049	0.139	0.335	0.0696
GEOM. MEAN :	0.181	0.185	0.044	0.032	0.045	0.348	0.0459
GEOM. STD. DEV. :	2.927	2.496	3.117	2.984	4.237	2.081	3.3810
1ST QUARTILE :	0.065	0.100	0.015	0.008	0.010	0.205	0.0324
2ND QUARTILE :	0.175	0.155	0.035	0.020	0.037	0.359	0.0562
3RD QUARTILE :	0.405	0.380	0.072	0.045	0.127	0.540	0.0813
VOL. WGT. MEAN :	0.229	0.163	0.044	0.026	0.059	0.385	0.0591

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY PRECIPITATION #09

PERIOD OF REPORT : JAN 3,82 TO DEC 26,82 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	93.0	62.0	28.00	77.00	71.0000	72.00	73.000
MAXIMUM :	44.6	109.0	5.21	5.71	0.2640	10.80	2.850
MINIMUM :	0.4	2.6	3.77	3.45	0.0218	0.10	0.020
RANGE :	44.2	106.4	1.44	2.26	0.2422	10.70	2.830
ARITH. MEAN :	10.8	35.8	4.29	4.27	0.1018	3.30	0.717
ARITH. STD. DEV :	10.4	23.6	0.32	0.50	0.0580	2.41	0.601
GEOM. MEAN :	6.7	27.4	4.28	4.24	0.0854	2.39	0.489
GEOM. STD. DEV. :	3.0	2.3	1.07	1.12	1.8727	2.47	2.662
1ST QUARTILE :	3.3	17.9	4.07	3.93	0.0518	1.25	0.295
2ND QUARTILE :	8.6	27.1	4.23	4.16	0.0898	2.68	0.495
3RD QUARTILE :	13.5	52.5	4.43	4.39	0.1467	5.15	0.980
VOL. WGT. MEAN :	******	36.1	******	******	0.0982	3.34	0.635

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY PRECIPITATION #09

PERIOD OF REPORT : JAN 3,82 TO DEC 26,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	60.000	70.000	62.000	66.000	65.000	68.000	77.0000
MAXIMUM :	1.140	1.180	0.190	0.320	0.620	1.420	0.3548
MINIMUM :	0.010	0.000	0.000	0.000	0.000	0.034	0.0019
RANGE :	1.130	1.180	0.190	0.320	0.620	1.386	0.3529
ARITH. MEAN :	0.237	0.250	0.039	0.049	0.109	0.390	0.0849
ARITH. STD. DEV :	0.265	0.250	0.043	0.048	0.144	0.309	0.0702
GEOM. MEAN :	0.140	0.178	0.038	0.037	0.061	0.279	0.0542
GEOM. STD. DEV. :	2.870	2.642	2.911	2.404	3.051	2.430	3.1543
1ST QUARTILE :	0.060	0.075	0.010	0.025	0.025	0.157	0.0368
2ND QUARTILE :	0.135	0.185	0.025	0.035	0.050	0.320	0.0668
3RD QUARTILE :	0.300	0.295	0.050	0.055	0.120	0.560	0.1135
VOL. WGT. MEAN :	0.253	0.196	0.040	0.039	0.090	0.449	0.0704

PART IV

SUMMARY STATISTICS OF PRECIPITATION CONCENTRATION BY REGION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	622.0	369.0	316.00	503.00	478.0000	509.00	507.000
MAXIMUM :	41.0	167.0	5.26	5.71	0.5840	24.75	3.460
MINIMUM :	0.0	2.3	3.40	3.35	0.0194	0.02	0.000
RANGE :	41.0	164.7	1.86	2.36	0.5646	24.72	3.460
ARITH. MEAN :	6.5	32.0	4.26	4.30	0.0969	2.89	0.589
ARITH. STD. DEV :	6.8	25.0	0.32	0.39	0.0748	2.82	0.508
GEOM. MEAN :	3.5	24.6	4.25	4.28	0.0789	1.83	0.418
GEOM. STD. DEV. :	3.6	2.1	1.08	1.09	1.8557	2.89	2.509
1ST QUARTILE :	1.4	14.9	4.04	4.05	0.0499	0.90	0.240
2ND QUARTILE :	3.9	26.8	4.22	4.25	0.0785	2.20	0.430
3RD QUARTILE :	9.4	40.3	4.48	4.51	0.1151	3.88	0.760
VOL. WGT. MEAN :	******	27.7	******	******	0.0860	2.44	0.425

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	401.000	486.000	403.000	409.000	410.000	407.000	503.0000
MAXIMUM :	1.120	1.120	0.235	0.750	0.540	1.800	0.4467
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.001	0.0019
RANGE :	1.120	1.120	0.235	0.750	0.540	1.799	0.4447
ARITH. MEAN :	0.217	0.190	0.030	0.047	0.070	0.306	0.0715
ARITH. STD. DEV :	0.222	0.166	0.036	0.068	0.078	0.291	0.0658
GEOM. MEAN :	0.139	0.141	0.031	0.032	0.046	0.175	0.0503
GEOM. STD. DEV. :	2.892	2.572	2.870	2.968	3.193	3.407	2.4390
1ST QUARTILE :	0.060	0.080	0.005	0.015	0.020	0.084	0.0309
2ND QUARTILE :	0.140	0.140	0.020	0.030	0.040	0.215	0.0562
3RD QUARTILE :	0.300	0.270	0.035	0.050	0.095	0.450	0.0891
VOL. WGT. MEAN :	0.157	0.133	0.021	0.035	0.049	0.262	0.0600

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83 PAGE : 1

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	364.0	235.0	0.00	310.00	305.0000	307.00	310.000
MAXIMUM :	83.0	56.0	******	6.54	0.3760	6.90	1.340
MINIMUM :	0.1	1.8	******	3.58	0.0170	0.00	0.000
RANGE :	82.9	54.2	******	2.96	0.3590	6.90	1.340
ARITH. MEAN :	7.7	11.4	******	4.92	0.0501	1.29	0.245
ARITH. STD. DEV :	8.8	8.0	******	0.50	0.0374	1.29	0.234
GEOM. MEAN :	4.0	9.3	******	4.90	0.0434	0.85	0.190
GEOM. STD. DEV. :	3.7	1.9	******	1.11	1.6265	2.67	2.365
1ST QUARTILE :	2.0	6.1	******	4.60	0.0312	0.45	0.090
2ND QUARTILE :	5.1	9.4	******	4.87	0.0418	0.85	0.180
3RD QUARTILE :	10.5	13.5	******	5.18	0.0557	1.60	0.305
VOL. WGT. MEAN :	******	10.4	******	******	0.0437	1.14	0.199

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	261.000	303.000	267.000	277.000	264.000	274.000	310.0000
MAXIMUM :	0.730	0.780	0.300	0.715	0.260	3.550	0.2630
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0003
RANGE :	0.730	0.780	0.300	0.715	0.260	3.550	0.2627
ARITH. MEAN :	0.151	0.081	0.026	0.049	0.042	0.306	0.0221
ARITH. STD. DEV :	0.152	0.080	0.036	0.077	0.045	0.365	0.0321
GEOM. MEAN :	0.098	0.078	0.039	0.029	0.028	0.153	0.0120
GEOM. STD. DEV. :	2.976	2.262	3.336	3.292	3.144	4.535	3.1815
1ST QUARTILE :	0.040	0.040	0.002	0.010	0.010	0.079	0.0065
2ND QUARTILE :	0.100	0.060	0.015	0.025	0.030	0.209	0.0135
3RD QUARTILE :	0.200	0.100	0.035	0.055	0.055	0.387	0.0251
VOL. WGT. MEAN :	0.129	0.057	0.022	0.034	0.032	0.267	0.0166

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	426.0	281.0	153.00	359.00	341.0000	365.00	363.000
MAXIMUM :	60.6	155.0	5.21	5.99	0.4432	17.75	3.920
MINIMUM :	0.1	2.6	3.30	3.15	0.0000	0.02	0.000
RANGE :	60.5	152.4	1.91	2.84	0.4432	17.72	3.920
ARITH. MEAN :	9.1	36.2	4.30	4.23	0.1020	3.29	0.671
ARITH. STD. DEV :	9.6	25.7	0.33	0.44	0.0638	2.62	0.559
GEOM. MEAN :	5.4	27.8	4.29	4.21	0.0863	2.39	0.476
GEOM. STD. DEV. :	3.1	2.2	1.08	1.11	1.8351	2.39	2.527
1ST QUARTILE :	2.6	16.8	4.09	3.96	0.0558	1.30	0.300
2ND QUARTILE :	5.8	30.5	4.28	4.14	0.0910	2.55	0.505
3RD QUARTILE :	13.0	47.3	4.47	4.44	0.1272	4.35	0.890
VOL. WGT. MEAN :	******	31.9	******	******	0.0922	2.94	0.520

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

	CALCIUM MG/L	CHLOPIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	306.000	351.000	305.000	318.000	311.000	319.000	359.0000
MAXIMUM :	1.790	1.180	0.285	0.800	0.705	2.000	0.7079
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.000	0.0010
RANGE :	1.790	1.180	0.285	0.800	0.705	2.000	0.7069
ARITH. MEAN :	0.253	0.234	0.040	0.055	0.105	0.396	0.0887
ARITH. STD. DEV :	0.275	0.208	0.043	0.081	0.129	0.339	0.0817
GEOM. MEAN :	0.147	0.168	0.034	0.038	0.057	0.270	0.0592
GEOM. STD. DEV. :	3.069	2.547	2.760	2.735	3.504	2.738	2.7694
1ST QUARTILE :	0.060	0.085	0.010	0.015	0.025	0.154	0.0359
2ND QUARTILE :	0.150	0.160	0.025	0.035	0.055	0.318	0.0716
3RD QUARTILE :	0.330	0.320	0.050	0.060	0.135	0.510	0.1084
VOL. WGT. MEAN :	0.211	0.165	0.032	0.042	0.075	0.359	0.0706

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 2,82 TO DEC 31,82

	PRECIP. MM	CONDUCT. UMHO/CM	PH FIELD	PH LAB	TOTAL H+ TO PH8.3 MG/L	SULPHATE MG/L	NITRATE AS N MG/L
# OF SAMPLES :	532.0	336.0	244.00	399.00	394.0000	446.00	446.000
MAXIMUM :	92.8	170.0	6.43	6.74	0.6696	25.50	3.700
MINIMUM :	0.0	2.5	3.00	3.28	0.0170	0.20	0.005
RANGE :	92.8	167.5	3.43	3.46	0.6526	25.30	3.695
ARITH. MEAN :	7.9	33.6	4.29	4.30	0.1019	3.63	0.689
ARITH. STD. DEV :	8.8	21.1	0.42	0.52	0.0809	2.88	0.568
GEOM. MEAN :	4.3	28.0	4.27	4.27	0.0830	2.72	0.500
GEOM. STD. DEV. :	3.5	1.9	1.10	1.12	1.8578	2.23	2.409
1ST QUARTILE :	1.9	18.8	4.07	4.02	0.0568	1.67	0.300
2ND QUARTILE :	4.7	30.1	4.23	4.23	0.0823	2.88	0.500
3RD QUARTILE :	11.5	41.3	4.46	4.45	0.1197	4.70	0.900
VOL. WGT. MEAN :	******	29.0	******	******	0.0855	2.98	0.467

***** : INSUFFICIENT DATA OR NOT APPLICABLE
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF PRECIPITATION CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 2,82 TO DEC 31,82

	CALCIUM MG/L	CHLORIDE MG/L	MAGNESIM MG/L	POTASSIM MG/L	SODIUM MG/L	AMMONIUM AS N MG/L	FREE H+ LAB MG/L
# OF SAMPLES :	341.000	431.000	354.000	382.000	368.000	381.000	399.0000
MAXIMUM :	2.060	1.200	0.585	1.350	0.650	2.950	0.5248
MINIMUM :	0.000	0.000	0.000	0.000	0.000	0.012	0.0002
RANGE :	2.060	1.200	0.585	1.350	0.650	2.938	0.5246
ARITH. MEAN :	0.351	0.279	0.074	0.070	0.104	0.452	0.0785
ARITH. STD. DEV :	0.336	0.241	0.080	0.112	0.118	0.397	0.0732
GEOM. MEAN :	0.220	0.207	0.047	0.044	0.060	0.328	0.0502
GEOM. STD. DEV. :	2.896	2.382	3.148	2.988	3.358	2.275	3.3222
1ST QUARTILE :	0.095	0.110	0.020	0.020	0.025	0.185	0.0355
2ND QUARTILE :	0.250	0.200	0.042	0.040	0.060	0.331	0.0582
3RD QUARTILE :	0.490	0.380	0.100	0.075	0.137	0.565	0.0955
VOL. WGT. MEAN :	0.255	0.181	0.049	0.050	0.068	0.354	0.0618

PART V

SUMMARY STATISTICS OF WET DEPOSITION BY STATION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY PRECIPITATION #06

PERIOD OF REPORT : JAN 3, 82 TO JAN 1,83

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	140.0	74.0000	115.0000	110.0000	116.00	115.000	96.000
MAXIMUM :	31.1	3.4499	3.5302	4.1128	162.96	13.250	9.882
MINIMUM :	0.2	0.0388	0.0039	0.0113	0.21	0.044	0.022
RANGE :	30.9	3.4110	3.5263	4.1015	162.74	13.206	9.860
ARITH. MEAN :	6.1	0.6445	0.4518	0.6525	18.40	3.092	1.448
ARITH. STD. DEV :	6.2	0.6259	0.5763	0.7067	23.77	2.690	1.675
GEOM. MEAN :	3.5	0.4317	0.2202	0.3643	8.43	1.883	0.826
GEOM. STD. DEV. :	3.2	2.5827	3.8171	3.2844	4.15	3.288	3.164
1ST QUARTILE :	1.5	0.2195	0.0924	0.1516	3.24	1.050	0.361
2ND QUARTILE :	3.5	0.4599	0.2477	0.4207	10.53	2.259	0.918
3RD QUARTILE :	8.2	0.8869	0.5978	0.9097	24.60	4.423	1.886

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : BALSAM LAKE/DAILY PRECIPITATION #06

PERIOD OF REPORT : JAN 3, 82 TO JAN 1,83

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	111.000	95.000	104.000	101.000	98.000
MAXIMUM :	6.531	1.620	1.000	2.488	11.988
MINIMUM :	0.000	0.000	0.000	0.000	0.004
RANGE :	6.531	1.620	1.000	2.488	11.984
ARITH. MEAN :	0.947	0.202	0.165	0.336	1.965
ARITH. STD. DEV :	0.993	0.258	0.186	0.441	2.041
GEOM. MEAN :	0.624	0.131	0.115	0.199	0.965
GEOM. STD. DEV. :	2.816	3.159	3.090	2.955	4.534
1ST QUARTILE :	0.281	0.046	0.042	0.083	0.440
2ND QUARTILE :	0.637	0.105	0.096	0.187	1.487
3RD QUARTILE :	1.205	0.282	0.210	0.385	2.821

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY PRECIPITATION #11

PERIOD OF REPORT : JAN 2, 82 TO DEC 29,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	126.0	43.0000	112.0000	105.0000	113.00	110.000	94.000
MAXIMUM :	60.6	3.1731	4.5236	5.7345	189.05	33.154	9.472
MINIMUM :	0.1	0.0518	0.0120	0.0275	0.06	0.000	0.018
RANGE :	60.5	3.1213	4.5117	5.7070	188.99	33.154	9.454
ARITH. MEAN :	8.0	0.6581	0.6418	0.8582	23.96	4.113	1.399
ARITH. STD. DEV :	10.0	0.6840	0.7654	0.9905	33.08	4.574	1.792
GEOM. MEAN :	4.3	0.4092	0.3385	0.4790	10.97	2.301	0.645
GEOM. STD. DEV. :	3.2	2.7221	3.3696	3.1390	3.97	3.417	3.983
1ST QUARTILE :	2.0	0.1911	0.1400	0.2118	5.25	0.978	0.264
2ND QUARTILE :	4.6	0.3708	0.3345	0.4834	10.96	2.756	0.688
3RD QUARTILE :	8.6	1.0025	0.8339	1.0460	27.73	5.687	1.681

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY PRECIPITATION #11

PERIOD OF REPORT : JAN 2, 82 TO DEC 29,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	108.000	94.000	95.000	94.000	93.000
MAXIMUM :	12.492	1.443	1.176	6.767	20.687
MINIMUM :	0.000	0.000	0.000	0.000	0.015
RANGE :	12.492	1.443	1.176	6.767	20.672
ARITH. MEAN :	1.155	0.216	0.223	0.444	3.028
ARITH. STD. DEV :	1.471	0.265	0.265	0.768	3.829
GEOM. MEAN :	0.717	0.133	0.148	0.215	1.472
GEOM. STD. DEV. :	2.865	3.547	3.432	3.796	3.929
1ST QUARTILE :	0.339	0.044	0.046	0.091	0.696
2ND QUARTILE :	0.720	0.127	0.121	0.258	1.707
3RD QUARTILE :	1.504	0.243	0.281	0.543	3.236

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY PRECIPITATION #08

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83 PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	193.0	92.0000	160.0000	145.0000	153.00	154.000	117.000
MAXIMUM :	34.8	4.4694	4.3677	4.1398	167.79	13.662	7.400
MINIMUM :	0.0	0.0665	0.0026	0.0118	0.03	0.000	0.000
RANGE :	34.8	4.4029	4.3651	4.1280	167.76	13.662	7.400
ARITH. MEAN :	6.0	0.6938	0.4120	0.6404	16.94	2.982	1.078
ARITH. STD. DEV :	6.9	0.7035	0.5529	0.7203	23.88	2.874	1.281
GEOM. MEAN :	2.6	0.4838	0.2050	0.3638	7.25	1.787	0.650
GEOM. STD. DEV. :	4.5	2.3274	3.6084	3.2165	4.46	3.107	3.131
1ST QUARTILE :	1.0	0.2683	0.0853	0.1651	2.77	0.715	0.279
2ND QUARTILE :	3.2	0.4680	0.2186	0.4172	8.50	2.139	0.674
3RD QUARTILE :	8.8	0.8764	0.5405	0.8158	22.75	4.017	1.299

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY PRECIPITATION #08

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	146.000	117.000	120.000	119.000	114.000
MAXIMUM :	5.655	1.224	2.262	3.160	14.100
MINIMUM :	0.000	0.000	0.000	0.000	0.006
RANGE :	5.655	1.224	2.262	3.160	14.094
ARITH. MEAN :	0.879	0.170	0.294	0.404	2.323
ARITH. STD. DEV :	1.003	0.211	0.378	0.548	2.647
GEOM. MEAN :	0.545	0.145	0.177	0.232	1.024
GEOM. STD. DEV. :	2.941	3.155	3.428	3.328	4.821
1ST QUARTILE :	0.240	0.030	0.068	0.085	0.335
2ND QUARTILE :	0.501	0.105	0.167	0.218	1.519
3RD QUARTILE :	1.140	0.235	0.388	0.426	2.919

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY PRECIPITATION #16

PERIOD OF REPORT : JAN 2, 82 TO DEC 28,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	90.0	0.0000	85.0000	83.0000	84.00	84.000	74.000
MAXIMUM :	35.8	********	1.4696	2.0686	74.24	8.308	7.884
MINIMUM :	0.1	********	0.0005	0.0058	0.00	0.000	0.000
RANGE :	35.7	********	1.4691	2.0629	74.24	8.308	7.884
ARITH. MEAN :	9.2	********	0.1532	0.4103	9.38	1.632	1.298
ARITH. STD. DEV :	7.7	********	0.2316	0.3953	11.01	1.680	1.620
GEOM. MEAN :	5.8	********	0.0652	0.2473	5.13	1.029	0.659
GEOM. STD. DEV. :	3.2	********	4.6376	3.2237	3.26	2.937	3.553
1ST QUARTILE :	2.9	********	0.0333	0.1247	2.21	0.523	0.286
2ND QUARTILE :	7.1	********	0.0987	0.3044	5.02	1.045	0.733
3RD QUARTILE :	12.8	********	0.1511	0.5496	13.47	2.404	1.595

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY PRECIPITATION #16

PERIOD OF REPORT : JAN 2, 82 TO DEC 28,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	83.000	75.000	76.000	73.000	77.000
MAXIMUM :	2.679	1.620	2.840	1.708	9.840
MINIMUM :	0.000	0.000	0.000	0.000	0.002
RANGE :	2.679	1.620	2.840	1.708	9.837
ARITH. MEAN :	0.523	0.194	0.342	0.323	2.256
ARITH. STD. DEV :	0.473	0.272	0.440	0.406	2.462
GEOM. MEAN :	0.376	0.211	0.188	0.197	0.899
GEOM. STD. DEV. :	2.961	3.080	3.632	3.358	6.481
1ST QUARTILE :	0.188	0.009	0.086	0.077	0.514
2ND QUARTILE :	0.422	0.089	0.241	0.156	1.166
3RD QUARTILE :	0.734	0.244	0.424	0.332	2.955

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY PRECIPITATION #13

PERIOD OF REPORT : JAN 2, 82 TO DEC 19,82 PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	131.0	0.0000	104.0000	99.0000	95.00	97.000	81.000
MAXIMUM :	83.0	********	1.5889	2.5917	99.11	12.710	15.990
MINIMUM :	0.2	********	0.0006	0.0092	0.00	0.000	0.000
RANGE :	82.8	********	1.5883	2.5825	99.11	12.710	15.990
ARITH. MEAN :	6.4	********	0.1518	0.3792	10.99	1.803	1.332
ARITH. STD. DEV :	10.1	********	0.2241	0.4421	16.24	2.357	2.577
GEOM. MEAN :	2.6	********	0.0588	0.2033	4.17	0.871	0.593
GEOM. STD. DEV. :	4.4	********	5.0238	3.3480	4.54	3.921	3.678
1ST QUARTILE :	0.7	********	0.0218	0.0748	1.17	0.293	0.241
2ND QUARTILE :	2.9	********	0.0760	0.2239	3.91	0.858	0.529
3RD QUARTILE :	8.6	********	0.1981	0.4818	14.52	2.136	1.442

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FORBES TWSP/DAILY PRECIPITATION #13

PERIOD OF REPORT : JAN 2, 82 TO DEC 19,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	97.000	83.000	87.000	82.000	85.000
MAXIMUM :	3.320	3.485	2.870	3.735	30.750
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	3.320	3.485	2.870	3.735	30.750
ARITH. MEAN :	0.464	0.242	0.255	0.309	2.885
ARITH. STD. DEV :	0.555	0.584	0.433	0.508	5.184
GEOM. MEAN :	0.331	0.157	0.134	0.160	0.879
GEOM. STD. DEV. :	2.785	4.049	3.667	3.541	6.655
1ST QUARTILE :	0.108	0.006	0.042	0.049	0.227
2ND QUARTILE :	0.267	0.056	0.112	0.140	1.148
3RD QUARTILE :	0.588	0.154	0.261	0.330	3.032

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY PRECIPITATION #12

PERIOD OF REPORT : JAN 3, 82 TO DEC 29,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	117.0	41.0000	85.0000	89.0000	96.00	96.000	80.000
MAXIMUM :	52.0	2.2495	3.6677	4.0664	137.02	25.636	32.266
MINIMUM :	0.2	0.0401	0.0021	0.0000	0.36	0.060	0.120
RANGE :	51.8	2.2094	3.6655	4.0664	136.66	25.576	32.146
ARITH. MEAN :	7.9	0.5478	0.5728	0.7527	24.18	4.168	2.391
ARITH. STD. DEV :	7.8	0.4769	0.6412	0.7025	24.92	3.523	3.985
GEOM. MEAN :	4.9	0.3749	0.2903	0.5061	14.74	2.909	1.365
GEOM. STD. DEV. :	2.9	2.5776	3.9581	2.6549	2.97	2.680	2.771
1ST QUARTILE :	2.3	0.2216	0.1144	0.2752	8.47	1.965	0.767
2ND QUARTILE :	5.3	0.3933	0.3340	0.5100	16.99	3.271	1.361
3RD QUARTILE :	10.2	0.6911	0.7636	1.0440	29.11	5.830	2.667

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : GRAHAM LAKE/DAILY PRECIPITATION #12

PERIOD OF REPORT : JAN 3, 82 TO DEC 29,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	90.000	77.000	82.000	79.000	80.000
MAXIMUM :	13.481	5.525	7.072	9.503	22.952
MINIMUM :	0.120	0.000	0.000	0.000	0.059
RANGE :	13.361	5.525	7.072	9.503	22.893
ARITH. MEAN :	1.964	0.391	0.682	1.131	3.270
ARITH. STD. DEV :	1.976	0.660	1.074	1.332	3.243
GEOM. MEAN :	1.376	0.250	0.374	0.811	2.021
GEOM. STD. DEV. :	2.413	2.831	3.002	2.238	3.102
1ST QUARTILE :	0.810	0.108	0.148	0.466	1.127
2ND QUARTILE :	1.545	0.235	0.386	0.763	2.500
3RD QUARTILE :	2.497	0.455	0.729	1.313	4.934

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY PRECIPITATION #15

PERIOD OF REPORT : FEB 25, 82 TO DEC 23,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	39.0	0.0000	31.0000	33.0000	34.00	34.000	28.000
MAXIMUM :	40.4	********	0.9701	2.1110	72.79	11.729	8.640
MINIMUM :	0.2	********	0.0034	0.0061	0.35	0.000	0.000
RANGE :	40.2	********	0.9667	2.1049	72.44	11.729	8.640
ARITH. MEAN :	9.6	********	0.1684	0.4295	13.91	2.463	2.022
ARITH. STD. DEV :	9.6	********	0.2370	0.4600	17.30	2.758	2.047
GEOM. MEAN :	5.1	********	0.0666	0.2395	6.74	1.430	1.272
GEOM. STD. DEV. :	3.8	********	4.6241	3.5169	5.82	3.467	2.927
1ST QUARTILE :	2.2	********	0.0204	0.1296	2.80	0.570	0.483
2ND QUARTILE :	6.5	********	0.0856	0.2342	7.65	1.611	1.393
3RD QUARTILE :	14.0	********	0.1910	0.5017	18.80	3.392	2.811

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LAC LA CROIX/DAILY PRECIPITATION #15

PERIOD OF REPORT : FEB 25, 82 TO DEC 23,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIN MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES	33.000	28.000	29.000	29.000	30.000
MAXIMUM	2.831	1.440	2.960	1.320	12.213
MINIMUM	0.000	0.000	0.029	0.011	0.004
RANGE	2.831	1.440	2.931	1.308	12.209
ARITH. MEAN	0.708	0.336	0.520	0.421	3.935
ARITH. STD. DEV	0.621	0.329	0.590	0.365	3.891
GEOM. MEAN	0.572	0.327	0.311	0.256	1.730
GEOM. STD. DEV.	2.238	2.445	3.007	3.221	6.077
1ST QUARTILE	0.273	0.089	0.142	0.099	0.851
2ND QUARTILE	0.547	0.212	0.363	0.254	2.768
3RD QUARTILE	0.924	0.565	0.645	0.626	6.267

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY PRECIPITATION #02

PERIOD OF REPORT : JAN 2, 82 TO DEC 30,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	139.0	71.0000	99.0000	97.0000	109.00	107.000	86.000
MAXIMUM :	40.0	3.3271	2.6060	3.8080	138.00	17.600	19.899
MINIMUM :	0.1	0.0060	0.0007	0.0135	0.52	0.060	0.092
RANGE :	39.9	3.3211	2.6052	3.7945	137.48	17.540	19.807
ARITH. MEAN :	7.3	0.7414	0.5605	0.8034	25.50	4.203	3.248
ARITH. STD. DEV :	8.1	0.6810	0.5440	0.7054	25.63	3.289	3.753
GEOM. MEAN :	3.6	0.4886	0.3126	0.5178	15.24	2.822	2.017
GEOM. STD. DEV. :	3.9	2.9170	4.0942	3.0835	3.13	2.943	2.658
1ST QUARTILE :	1.5	0.3170	0.1832	0.3031	7.65	1.868	1.001
2ND QUARTILE :	4.3	0.5980	0.4019	0.6317	15.79	3.305	2.024
3RD QUARTILE :	10.9	0.8965	0.7310	1.0309	34.51	5.945	3.304

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY PRECIPITATION #02

PERIOD OF REPORT : JAN 2, 82 TO DEC 30,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	104.000	92.000	98.000	94.000	96.000
MAXIMUM :	9.504	2.979	3.460	6.831	13.248
MINIMUM :	0.000	0.016	0.000	0.000	0.065
RANGE :	9.504	2.962	3.460	6.831	13.183
ARITH. MEAN :	1.676	0.634	0.479	0.688	3.202
ARITH. STD. DEV :	1.458	0.714	0.587	0.930	2.908
GEOM. MEAN :	1.223	0.374	0.296	0.455	2.074
GEOM. STD. DEV. :	2.367	2.903	2.727	2.486	2.841
1ST QUARTILE :	0.790	0.171	0.147	0.219	1.258
2ND QUARTILE :	1.310	0.401	0.287	0.444	2.306
3RD QUARTILE :	2.184	0.693	0.524	0.887	4.240

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY PRECIPITATION #01

PERIOD OF REPORT : JAN 13, 82 TO DEC 28,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	98.0	58.0000	91.0000	88.0000	85.00	86.000	72.000
MAXIMUM :	92.8	9.4994	6.5720	9.8587	329.55	36.204	15.939
MINIMUM :	0.4	0.0206	0.0002	0.0336	0.75	0.160	0.288
RANGE :	92.4	9.4788	6.5718	9.8251	328.80	36.044	15.651
ARITH. MEAN :	9.9	0.8698	0.7190	0.9475	34.62	5.017	2.982
ARITH. STD. DEV :	11.2	1.3325	0.9838	1.2282	44.07	4.744	3.112
GEOM. MEAN :	6.2	0.5574	0.3837	0.6095	23.14	3.708	1.910
GEOM. STD. DEV. :	2.8	2.4463	3.9883	2.6645	2.45	2.283	2.577
1ST QUARTILE :	3.1	0.3771	0.2176	0.4140	13.62	2.440	0.899
2ND QUARTILE :	6.3	0.5679	0.4805	0.6941	26.02	4.095	1.740
3RD QUARTILE :	14.3	0.7412	0.7625	1.0958	36.69	5.722	3.788

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : MELBOURNE/DAILY PRECIPITATION 801

PERIOD OF REPORT : JAN 13, 82 TO DEC 28,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES	86.000	75.000	76.000	72.000	75.000
MAXIMUM	18.216	2.541	4.800	6.353	21.000
MINIMUM	0.000	0.000	0.000	0.000	0.452
RANGE	18.216	2.541	4.800	6.353	20.548
ARITH. MEAN	2.020	0.508	0.562	0.833	4.025
ARITH. STD. DEV	2.378	0.512	0.774	1.025	3.710
GEOM. MEAN	1.375	0.354	0.344	0.491	2.976
GEOM. STD. DEV.	2.362	2.560	2.676	3.073	2.183
1ST QUARTILE	0.747	0.154	0.151	0.199	1.917
2ND QUARTILE	1.256	0.381	0.343	0.508	3.002
3RD QUARTILE	2.499	0.616	0.641	1.004	4.716

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY PRECIPITATION #07

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	135.0	73.0000	108.0000	103.0000	115.00	115.000	94.000
MAXIMUM :	41.0	5.6596	4.3932	5.5268	205.00	16.400	8.977
MINIMUM :	0.3	0.0901	0.0182	0.0125	0.12	0.000	0.000
RANGE :	40.7	5.5695	4.3751	5.5143	204.88	16.400	8.977
ARITH. MEAN :	8.4	0.7022	0.4957	0.7662	20.55	3.481	1.447
ARITH. STD. DEV :	7.8	0.7654	0.5837	0.7660	26.28	3.177	1.533
GEOM. MEAN :	5.2	0.4846	0.2786	0.4788	9.83	2.111	1.019
GEOM. STD. DEV. :	2.9	2.3566	3.1950	2.9996	4.07	3.390	2.270
1ST QUARTILE :	2.4	0.2784	0.1262	0.2900	4.64	1.061	0.560
2ND QUARTILE :	5.9	0.4696	0.3186	0.5344	12.12	2.725	1.002
3RD QUARTILE :	12.3	0.9204	0.5827	0.9658	28.42	4.388	1.665

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NITHGROVE/DAILY PRECIPITATION #07

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	109.000	91.000	83.000	88.000	93.000
MAXIMUM :	8.184	1.414	2.828	5.022	14.596
MINIMUM :	0.065	0.000	0.031	0.000	0.001
RANGE :	8.119	1.414	2.797	5.022	14.595
ARITH. MEAN :	1.323	0.208	0.612	0.572	2.907
ARITH. STD. DEV :	1.288	0.263	0.550	0.694	3.027
GEOM. MEAN :	0.921	0.194	0.384	0.367	1.442
GEOM. STD. DEV. :	2.402	2.694	2.968	2.737	4.757
1ST QUARTILE :	0.479	0.038	0.190	0.184	0.846
2ND QUARTILE :	0.972	0.118	0.460	0.337	1.855
3RD QUARTILE :	1.482	0.265	0.871	0.714	3.847

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY PRECIPITATION #03

PERIOD OF REPORT : JAN 2, 82 TO DEC 30,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	158.0	61.0000	103.0000	106.0000	134.00	133.000	93.000
MAXIMUM :	48.5	10.4000	3.2894	4.5299	184.50	18.096	17.000
MINIMUM :	0.0	0.0084	0.0004	0.0197	0.67	0.081	0.000
RANGE :	48.5	10.3916	3.2890	4.5102	183.83	18.015	17.000
ARITH. MEAN :	6.9	0.7888	0.5040	0.7183	23.06	3.773	2.292
ARITH. STD. DEV :	7.4	1.3501	0.5690	0.7228	27.05	3.195	2.481
GEOM. MEAN :	3.6	0.4351	0.2396	0.4413	12.38	2.479	1.433
GEOM. STD. DEV. :	3.8	3.2981	4.8613	2.9992	3.36	2.888	2.822
1ST QUARTILE :	1.4	0.2431	0.1099	0.2262	5.09	1.492	0.698
2ND QUARTILE :	4.2	0.5067	0.3274	0.5362	14.57	2.839	1.418
3RD QUARTILE :	9.4	0.8659	0.7017	1.0051	31.13	4.937	3.125

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTH EASTHOPE/DAILY PRECIPITATION #03

PERIOD OF REPORT : JAN 2, 82 TO DEC 30,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	127.000	96.000	107.000	108.000	107.000
MAXIMUM :	16.038	2.720	10.010	5.232	20.570
MINIMUM :	0.000	0.000	0.000	0.026	0.064
RANGE :	16.038	2.720	10.010	5.206	20.506
ARITH. MEAN :	1.558	0.448	0.673	0.673	3.197
ARITH. STD. DEV :	1.704	0.487	1.222	0.768	3.501
GEOM. MEAN :	1.121	0.270	0.320	0.411	1.865
GEOM. STD. DEV. :	2.344	3.144	3.535	2.813	3.081
1ST QUARTILE :	0.580	0.107	0.147	0.222	0.801
2ND QUARTILE :	1.275	0.277	0.335	0.416	1.967
3RD QUARTILE :	2.057	0.587	0.692	0.928	4.406

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY PRECIPITATION #10

PERIOD OF REPORT : JAN 3, 82 TO DEC 16,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	90.0	41.0000	84.0000	75.0000	84.00	84.000	72.000
MAXIMUM :	48.0	2.4830	3.9670	3.7670	140.61	38.214	21.414
MINIMUM :	0.5	0.0297	0.0149	0.0876	0.84	0.210	0.000
RANGE :	47.5	2.4532	3.9520	3.6794	139.77	38.004	21.414
ARITH. MEAN :	10.5	0.6272	0.7461	1.0797	30.74	5.418	2.498
ARITH. STD. DEV :	10.0	0.5223	0.7393	0.8869	30.41	5.370	3.466
GEOM. MEAN :	6.5	0.4293	0.4317	0.7313	18.50	3.587	1.394
GEOM. STD. DEV. :	2.9	2.6703	3.2564	2.6237	3.04	2.670	2.879
1ST QUARTILE :	3.2	0.2451	0.2027	0.3422	9.82	1.944	0.613
2ND QUARTILE :	6.8	0.4823	0.4821	0.8203	19.58	3.952	1.456
3RD QUARTILE :	15.3	0.8094	1.1435	1.5742	43.81	7.281	2.346

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAILTON/DAILY PRECIPITATION #10

PERIOD OF REPORT : JAN 3, 82 TO DEC 16,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	83.000	72.000	75.000	73.000	78.000
MAXIMUM :	6.948	2.284	8.640	3.321	33.582
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	6.948	2.284	8.640	3.321	33.582
ARITH. MEAN :	1.420	0.337	0.483	0.680	3.749
ARITH. STD. DEV :	1.211	0.424	1.026	0.723	4.611
GEOM. MEAN :	1.004	0.256	0.287	0.358	2.093
GEOM. STD. DEV. :	2.488	2.783	2.910	3.869	3.719
1ST QUARTILE :	0.514	0.071	0.122	0.112	1.068
2ND QUARTILE :	1.038	0.208	0.255	0.402	2.405
3RD QUARTILE :	1.939	0.416	0.504	1.157	4.438

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY PRECIPITATION #05

PERIOD OF REPORT : JAN 3, 82 TO JAN 1,83

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	154.0	77.0000	120.0000	120.0000	125.00	123.000	94.000
MAXIMUM :	35.5	4.0760	3.8039	4.4730	147.32	17.750	12.505
MINIMUM :	0.2	0.0205	0.0018	0.0075	0.08	0.014	0.000
RANGE :	35.3	4.0555	3.8021	4.4655	147.24	17.736	12.505
ARITH. MEAN :	6.0	0.6323	0.4410	0.6202	17.62	3.208	1.720
ARITH. STD. DEV :	6.1	0.6040	0.5463	0.6699	22.10	2.844	1.853
GEOM. MEAN :	3.5	0.4406	0.2218	0.3276	8.62	1.973	1.053
GEOM. STD. DEV. :	3.2	2.4770	3.9258	3.7151	3.91	3.493	2.929
1ST QUARTILE :	1.9	0.2238	0.1004	0.1484	3.09	0.976	0.459
2ND QUARTILE :	3.8	0.4867	0.2818	0.4300	10.57	2.523	1.203
3RD QUARTILE :	8.1	0.8865	0.6011	0.9714	25.05	4.864	2.220

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : RAVEN LAKE/DAILY PRECIPITATION #05

PERIOD OF REPORT : JAN 3, 82 TO JAN 1,83

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	120.000	100.000	102.000	102.000	102.000
MAXIMUM :	6.745	2.153	1.952	2.541	16.605
MINIMUM :	0.000	0.000	0.000	0.000	0.018
RANGE :	6.745	2.153	1.952	2.541	16.587
ARITH. MEAN :	1.009	0.190	0.214	0.432	2.161
ARITH. STD. DEV :	1.148	0.284	0.285	0.504	2.410
GEOM. MEAN :	0.630	0.155	0.145	0.280	1.096
GEOM. STD. DEV. :	2.915	2.904	2.828	3.067	3.994
1ST QUARTILE :	0.252	0.042	0.063	0.091	0.467
2ND QUARTILE :	0.708	0.101	0.118	0.249	1.453
3RD QUARTILE :	1.363	0.229	0.254	0.613	3.019

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY PRECIPITATION #14

PERIOD OF REPORT : JAN 2, 82 TO DEC 24,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	104.0	0.0000	90.0000	90.0000	94.00	95.000	78.000
MAXIMUM :	46.0	********	1.2381	1.9964	73.60	12.880	9.200
MINIMUM :	0.5	********	0.0011	0.0252	0.05	0.000	0.000
RANGE :	45.5	********	1.2370	1.9712	73.55	12.880	9.200
ARITH. MEAN :	7.3	********	0.1130	0.3294	8.54	1.545	0.993
ARITH. STD. DEV :	7.2	********	0.1580	0.2974	12.13	1.884	1.350
GEOM. MEAN :	4.8	********	0.0583	0.2319	4.48	1.012	0.580
GEOM. STD. DEV. :	2.6	********	3.6300	2.4148	3.41	2.689	2.956
1ST QUARTILE :	2.5	********	0.0275	0.1301	2.21	0.475	0.274
2ND QUARTILE :	5.4	********	0.0648	0.2439	5.04	1.087	0.594
3RD QUARTILE :	8.7	********	0.1368	0.4484	10.31	1.902	1.083

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : QUETICO CENTRE/DAILY PRECIPITATION #14

PERIOD OF REPORT : JAN 2, 82 TO DEC 24,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	90.000	81.000	85.000	80.000	62.000
MAXIMUM :	2.300	1.610	1.912	1.250	12.880
MINIMUM :	0.000	0.000	0.000	0.000	0.007
RANGE :	2.300	1.610	1.912	1.250	12.873
ARITH. MEAN :	0.461	0.150	0.336	0.271	2.080
ARITH. STD. DEV :	0.453	0.267	0.408	0.285	2.280
GEOM. MEAN :	0.390	0.134	0.183	0.170	0.999
GEOM. STD. DEV. :	2.319	3.261	3.709	3.002	4.325
1ST QUARTILE :	0.157	0.018	0.061	0.057	0.348
2ND QUARTILE :	0.348	0.060	0.191	0.154	1.435
3RD QUARTILE :	0.577	0.171	0.402	0.380	2.886

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY PRECIPITATION 804

PERIOD OF REPORT : JAN 2, 82 TO DEC 31,82 PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	137.0	54.0000	106.0000	103.0000	118.00	120.000	90.000
MAXIMUM :	49.4	4.1109	3.6971	4.8329	207.68	19.012	17.550
MINIMUM :	0.5	0.0064	0.0004	0.0333	1.14	0.026	0.000
RANGE :	48.9	4.1046	3.6966	4.7996	206.54	18.986	17.550
ARITH. MEAN :	8.4	0.7847	0.5559	0.8391	26.73	4.265	2.565
ARITH. STD. DEV :	8.7	0.7865	0.6497	0.9018	32.54	3.665	3.159
GEOM. MEAN :	5.0	0.4927	0.2676	0.4951	15.23	2.965	1.394
GEOM. STD. DEV. :	2.9	3.1890	4.7979	3.0725	3.01	2.579	3.141
1ST QUARTILE :	1.9	0.3015	0.1227	0.2284	7.35	1.881	0.568
2ND QUARTILE :	5.3	0.5863	0.3340	0.5660	14.70	2.804	1.504
3RD QUARTILE :	11.9	0.9058	0.7548	1.1043	31.99	5.698	2.956

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WELLESLEY/DAILY PRECIPITATION #04

PERIOD OF REPORT : JAN 2, 82 TO DEC 31,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	114.000	91.000	101.000	94.000	103.000
MAXIMUM :	10.260	2.601	2.336	6.405	18.236
MINIMUM :	0.000	0.000	0.000	0.000	0.163
RANGE :	10.260	2.601	2.336	6.405	18.073
ARITH. MEAN :	1.542	0.485	0.278	0.646	3.994
ARITH. STD. DEV :	1.574	0.591	0.372	0.918	4.062
GEOM. MEAN :	1.052	0.293	0.190	0.321	2.552
GEOM. STD. DEV. :	2.519	3.198	3.045	3.762	2.691
1ST QUARTILE :	0.473	0.082	0.056	0.109	1.407
2ND QUARTILE :	1.033	0.264	0.159	0.264	2.360
3RD QUARTILE :	2.072	0.566	0.347	0.833	4.842

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY PRECIPITATION 609

PERIOD OF REPORT : JAN 3, 82 TO DEC 26,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	93.0	28.0000	77.0000	71.0000	72.00	73.000	60.000
MAXIMUM :	44.6	2.3467	4.6892	6.7093	280.66	67.623	24.096
MINIMUM :	0.4	0.0358	0.0031	0.0368	0.58	0.116	0.140
RANGE :	44.2	2.3109	4.6861	6.6725	280.08	67.507	23.956
ARITH. MEAN :	10.8	0.7233	0.8515	1.2697	41.79	7.800	3.528
ARITH. STD. DEV :	10.4	0.5689	0.9615	1.3014	53.59	10.909	5.521
GEOM. MEAN :	6.7	0.5210	0.4158	0.7296	19.89	4.023	1.543
GEOM. STD. DEV. :	3.0	2.4976	4.2207	3.2556	3.79	3.375	3.543
1ST QUARTILE :	3.3	0.3383	0.1894	0.3407	8.81	1.675	0.634
2ND QUARTILE :	8.6	0.5564	0.5305	0.9241	20.15	4.610	1.420
3RD QUARTILE :	13.5	0.9717	1.1639	1.7652	51.78	8.222	3.479

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : WHITMAN CREEK/DAILY PRECIPITATION #09

PERIOD OF REPORT : JAN 3, 82 TO DEC 26,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	70.000	62.000	66.000	65.000	68.000
MAXIMUM :	12.375	3.775	2.124	6.630	62.319
MINIMUM :	0.000	0.000	0.000	0.000	0.142
RANGE :	12.375	3.775	2.124	6.630	62.177
ARITH. MEAN :	2.428	0.545	0.539	1.245	6.067
ARITH. STD. DEV :	2.576	0.844	0.506	1.606	9.884
GEOM. MEAN :	1.427	0.319	0.371	0.615	2.801
GEOM. STD. DEV. :	3.150	3.260	2.559	3.584	3.515
1ST QUARTILE :	0.615	0.091	0.152	0.215	1.086
2ND QUARTILE :	1.530	0.219	0.363	0.600	2.604
3RD QUARTILE :	3.136	0.462	0.725	1.609	6.646

PART VI

SUMMARY STATISTICS OF WET DEPOSITION BY REGION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	622.0	316.0000	503.0000	478.0000	509.00	507.000	401.000
MAXIMUM :	41.0	5.6596	4.3932	5.5268	205.00	17.750	12.505
MINIMUM :	0.0	0.0205	0.0018	0.0075	0.03	0.000	0.000
RANGE :	41.0	5.6391	4.3914	5.5193	204.97	17.750	12.505
ARITH. MEAN :	6.5	0.6692	0.4460	0.6652	18.25	3.190	1.404
ARITH. STD. DEV :	6.8	0.6757	0.5626	0.7149	23.97	2.896	1.595
GEOM. MEAN :	3.5	0.4606	0.2268	0.3761	8.39	1.924	0.857
GEOM. STD. DEV. :	3.6	2.4241	3.6447	3.3212	4.17	3.298	2.935
1ST QUARTILE :	1.4	0.2586	0.1004	0.1645	3.20	0.940	0.437
2ND QUARTILE :	3.9	0.4740	0.2689	0.4509	10.37	2.405	0.861
3RD QUARTILE :	9.4	0.8883	0.5752	0.9161	24.27	4.534	1.765

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CENTRAL REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	486.000	403.000	409.000	410.000	407.000
MAXIMUM :	8.184	2.153	2.828	5.022	16.605
MINIMUM :	0.000	0.000	0.000	0.000	0.001
RANGE :	8.184	2.153	2.828	5.022	16.604
ARITH. MEAN :	1.026	0.191	0.306	0.430	2.330
ARITH. STD. DEV :	1.116	0.253	0.397	0.553	2.566
GEOM. MEAN :	0.655	0.154	0.177	0.258	1.110
GEOM. STD. DEV. :	2.831	2.988	3.378	3.098	4.534
1ST QUARTILE :	0.302	0.041	0.064	0.104	0.505
2ND QUARTILE :	0.693	0.109	0.166	0.250	1.566
3RD QUARTILE :	1.342	0.246	0.393	0.508	3.362

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83 PAGE : 1

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	364.0	0.0000	310.0000	305.0000	307.00	310.000	261.000
MAXIMUM :	83.0	********	1.5889	2.5917	99.11	12.880	15.990
MINIMUM :	0.1	********	0.0005	0.0058	0.00	0.000	0.000
RANGE :	82.9	********	1.5884	2.5859	99.11	12.880	15.990
ARITH. MEAN :	7.7	********	0.1426	0.3784	10.12	1.750	1.295
ARITH. STD. DEV :	8.8	********	0.2106	0.3932	13.92	2.109	1.959
GEOM. MEAN :	4.0	********	0.0611	0.2269	4.76	1.008	0.659
GEOM. STD. DEV. :	3.7	********	4.4335	3.0461	3.76	3.232	3.399
1ST QUARTILE :	2.0	********	0.0258	0.1149	2.00	0.444	0.289
2ND QUARTILE :	5.1	********	0.0782	0.2641	5.10	1.068	0.614
3RD QUARTILE :	10.5	********	0.1695	0.5111	12.90	2.106	1.482

***** : INSUFFICIENT DATA
NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : NORTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	303.000	267.000	277.000	264.000	274.000
MAXIMUM :	3.320	3.485	2.960	3.735	30.750
MINIMUM :	0.000	0.000	0.000	0.000	0.000
RANGE :	3.320	3.485	2.960	3.735	30.750
ARITH. MEAN :	0.506	0.213	0.331	0.314	2.582
ARITH. STD. DEV :	0.515	0.401	0.450	0.406	3.666
GEOM. MEAN :	0.382	0.176	0.177	0.182	0.990
GEOM. STD. DEV. :	2.662	3.467	3.683	3.302	5.818
1ST QUARTILE :	0.149	0.015	0.066	0.067	0.390
2ND QUARTILE :	0.349	0.079	0.183	0.164	1.376
3RD QUARTILE :	0.682	0.216	0.409	0.387	3.216

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	426.0	153.0000	358.0000	340.0000	365.00	363.000	306.000
MAXIMUM :	60.6	3.1731	4.6892	6.7093	280.66	67.623	32.266
MINIMUM :	0.1	0.0297	0.0021	0.0000	0.06	0.000	0.000
RANGE :	60.5	3.1433	4.6870	6.7093	280.59	67.623	32.266
ARITH. MEAN :	9.1	0.6322	0.6950	0.9654	29.10	5.171	2.334
ARITH. STD. DEV :	9.6	0.5675	0.7830	0.9941	36.29	6.469	3.787
GEOM. MEAN :	5.4	0.4232	0.3612	0.5825	15.04	3.035	1.116
GEOM. STD. DEV. :	3.1	2.6204	3.6750	2.9622	3.51	3.086	3.483
1ST QUARTILE :	2.6	0.2430	0.1509	0.2752	6.71	1.622	0.520
2ND QUARTILE :	5.8	0.4432	0.4082	0.6237	16.74	3.339	1.173
3RD QUARTILE :	13.0	0.8465	0.9317	1.3215	37.79	6.636	2.415

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHEASTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 1, 82 TO JAN 1,83

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	351.000	305.000	318.000	311.000	319.000
MAXIMUM :	13.481	5.525	8.640	9.503	62.319
MINIMUN :	0.000	0.000	0.000	0.000	0.000
RANGE :	13.481	5.525	8.640	9.503	62.319
ARITH. MEAN :	1.679	0.356	0.468	0.841	3.913
ARITH. STD. DEV :	1.881	0.573	0.803	1.178	5.824
GEOM. MEAN :	1.053	0.217	0.266	0.423	1.992
GEOM. STD. DEV. :	2.820	3.259	3.263	3.745	3.631
1ST QUARTILE :	0.511	0.070	0.109	0.179	0.976
2ND QUARTILE :	1.123	0.189	0.263	0.498	2.271
3RD QUARTILE :	2.236	0.418	0.552	1.042	4.777

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 2, 82 TO DEC 31,82

	PRECIP. MM	FREE H+ FIELD MG/M**2	FREE H+ LAB MG/M**2	TOTAL H+ TO PH8.3 MG/M**2	SULPHATE MG/M**2	NITRATE AS N MG/M**2	CALCIUM MG/M**2
# OF SAMPLES :	532.0	244.0000	399.0000	394.0000	446.00	446.000	341.000
MAXIMUM :	92.8	10.4000	6.5720	9.8587	329.55	36.204	19.899
MINIMUM :	0.0	0.0060	0.0002	0.0135	0.52	0.026	0.000
RANGE :	92.8	10.3940	6.5718	9.8451	329.03	36.178	19.899
ARITH. MEAN :	7.9	0.7934	0.5808	0.8220	26.83	4.248	2.751
ARITH. STD. DEV :	8.8	1.0664	0.7016	0.9015	32.24	3.698	3.156
GEOM. MEAN :	4.3	0.4906	0.2935	0.5084	15.50	2.900	1.648
GEOM. STD. DEV. :	3.5	2.9500	4.4695	2.9695	3.09	2.719	2.837
1ST QUARTILE :	1.9	0.3083	0.1709	0.2626	7.60	1.896	0.780
2ND QUARTILE :	4.7	0.5759	0.3841	0.6074	16.86	3.268	1.658
3RD QUARTILE :	11.5	0.8751	0.7460	1.0578	33.45	5.634	3.263

NOTE(1): PRECIP. VALUES REPRESENT GAUGE DEPTH

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF CALCULATED DEPOSITIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : SOUTHWESTERN REGION/DAILY PRECIPITATION

PERIOD OF REPORT : JAN 2, 82 TO DEC 31,82

	CHLORIDE MG/M**2	MAGNESIM MG/M**2	POTASSIM MG/M**2	SODIUM MG/M**2	AMMONIUM AS N MG/M**2
# OF SAMPLES :	431.000	354.000	382.000	368.000	381.000
MAXIMUM :	18.216	2.979	10.010	6.831	21.000
MINIMUM :	0.000	0.000	0.000	0.000	0.064
RANGE :	18.216	2.979	10.010	6.831	20.936
ARITH. MEAN :	1.674	0.519	0.497	0.701	3.577
ARITH. STD. DEV :	1.778	0.567	0.824	0.901	3.579
GEOM. MEAN :	1.173	0.318	0.277	0.410	2.286
GEOM. STD. DEV. :	2.405	2.988	3.114	3.041	2.771
1ST QUARTILE :	0.614	0.133	0.107	0.185	1.270
2ND QUARTILE :	1.247	0.322	0.272	0.419	2.426
3RD QUARTILE :	2.151	0.628	0.534	0.930	4.429

PART VII

SUMMARY STATISTICS OF AIR CONCENTRATION BY STATION, REGION

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : CHARLESTON LAKE/DAILY/AIR #11

PERIOD OF REPORT : JAN 1,82 TO DEC 28,82

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	331.0	318.00	323.00	301.000	333.00	322.00
MAXIMUM :	43.5	20.28	2.62	3.223	1.86	2.84
MINIMUM :	0.0	0.00	0.00	0.003	0.00	0.00
RANGE :	43.5	20.28	2.62	3.220	1.86	2.84
ARITH. MEAN :	6.2	3.47	0.41	0.665	0.18	0.58
ARITH. STD. DEV :	6.6	3.16	0.39	0.551	0.28	0.50
GEOM. MEAN :	3.4	2.28	0.27	0.416	0.13	0.40
GEOM. STD. DEV. :	3.4	2.85	3.11	3.229	3.67	2.94
1ST QUARTILE :	1.3	1.16	0.11	0.222	0.03	0.20
2ND QUARTILE :	4.3	2.53	0.31	0.505	0.08	0.48
3RD QUARTILE :	8.5	4.74	0.59	1.004	0.20	0.82

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : DORSET/DAILY/AIR #08

PERIOD OF REPORT : JAN 1,82 TO DEC 20,82

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	331.0	326.00	335.00	327.000	329.00	329.00
MAXIMUM :	46.2	34.19	1.82	4.665	0.86	2.40
MINIMUM :	0.0	0.00	0.00	0.000	0.00	0.00
RANGE :	46.2	34.19	1.82	4.665	0.86	2.40
ARITH. MEAN :	4.7	3.26	0.33	0.575	0.05	0.37
ARITH. STD. DEV :	6.8	4.38	0.36	0.671	0.11	0.41
GEOM. MEAN :	1.9	1.76	0.19	0.317	0.09	0.22
GEOM. STD. DEV. :	4.7	3.41	3.22	3.530	5.17	3.17
1ST QUARTILE :	0.5	0.80	0.07	0.126	0.00	0.09
2ND QUARTILE :	2.0	2.08	0.18	0.385	0.00	0.22
3RD QUARTILE :	6.2	4.09	0.46	0.756	0.03	0.50

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : FERNBERG/DAILY/AIR #16

PERIOD OF REPORT : JAN 1,82 TO JAN 1,83

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	308.0	305.00	311.00	296.000	310.00	310.00
MAXIMUM :	17.0	9.72	0.88	2.021	0.93	1.23
MINIMUM :	0.0	0.00	0.00	0.000	0.00	0.00
RANGE :	17.0	9.72	0.88	2.021	0.93	1.23
ARITH. MEAN :	1.5	1.42	0.12	0.352	0.04	0.17
ARITH. STD. DEV :	2.1	1.48	0.15	0.422	0.12	0.21
GEOM. MEAN :	1.0	0.93	0.08	0.194	0.15	0.10
GEOM. STD. DEV. :	3.1	2.73	3.28	3.325	5.39	3.56
1ST QUARTILE :	0.1	0.51	0.03	0.096	0.00	0.03
2ND QUARTILE :	0.7	0.93	0.07	0.187	0.00	0.08
3RD QUARTILE :	2.1	1.74	0.16	0.447	0.02	0.22

ONTARIO MINISTRY OF THE ENVIRONMENT
SUMMARY STATISTICS OF AMBIENT CONCENTRATIONS
APIOS - ACIDIC PRECIPITATION IN ONTARIO STUDY

STATION NAME : LONGWOODS/DAILY/AIR #02

PERIOD OF REPORT : DEC 31,81 TO JAN 1,83

	SULPHUR DIOXIDE UG/M**3	SULPHATE UG/M**3	NITRIC AS N UG/M**3	AMMONIUM AS N UG/M**3	NITRATE AS N UG/M**3	TOTL NO3 AS N UG/M**3
# OF SAMPLES :	307.0	323.00	332.00	260.000	333.00	330.00
MAXIMUM :	62.8	40.43	3.99	8.323	3.03	6.43
MINIMUM :	0.0	0.00	0.00	0.003	0.00	0.03
RANGE :	62.8	40.43	3.99	8.320	3.03	6.40
ARITH. MEAN :	10.6	5.20	0.68	0.893	0.38	1.06
ARITH. STD. DEV :	11.5	5.11	0.64	0.997	0.45	0.83
GEOM. MEAN :	5.9	3.40	0.45	0.561	0.23	0.78
GEOM. STD. DEV. :	3.2	2.84	2.64	2.937	3.40	2.32
1ST QUARTILE :	3.0	2.07	0.22	0.314	0.09	0.49
2ND QUARTILE :	6.6	3.65	0.45	0.656	0.25	0.85
3RD QUARTILE :	14.9	6.68	1.00	1.084	0.48	1.42